

***What Is Claimed Is:***

1        1.        A method for simulating and modeling a batch processing manufacturing  
2        facility, comprising the steps of:

3                (1)        selecting a sequence of unit operations wherein each of said  
4        sequence of unit operations has an identifier code;

5                (2)        selecting a set of scheduling cycles for each of said sequence of  
6        unit operations;

7                (3)        referencing a master table using said identifier code to obtain  
8        operational parameters for each of said sequence of unit operations;

9                (4)        generating a block flow diagram using said sequence of unit  
10      operations and said operational parameters; and

11               (5)        generating a process time line using said operational parameters,  
12      said block flow diagram, said set of scheduling cycles for each of said sequence  
13      of unit operations, wherein said process time line is used as a tool for batch  
14      processing and facility design.

1        2.        The method of claim 1, wherein the batch process manufacturing facility  
2        is a biopharmaceutical batch processing facility.